



**CITY OF LONG BEACH  
CLASSIFICATION SPECIFICATION**

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**TITLE:                   MECHANICAL ENGINEER**

**DEFINITION:** Under direction, performs responsible supervisory and specialized professional work in mechanical engineering.

**EXAMPLES OF DUTIES:**

- Supervises and is responsible for performing the more complex professional and technical engineering work involved in the analysis, design, installation, operation, maintenance, and repair of mechanical, air conditioning, refrigeration, heating, ventilating, pumping, plumbing and other mechanically functioning equipment and systems;
- Develops specific project work programs from broad, general assignments, determining procedures and schedules, performing or checking preliminary design work, and assigning to subordinate engineers and technicians the preparation of studies, designs, plans, specifications, estimates, and detailed drawings of various project components;
- Reviews work in progress and upon completion;
- Performs or directs engineering field activities in connection with the construction, installation, operation, repair or maintenance of mechanical equipment and systems;
- Confers with architects, contractors, operating personnel, and others concerning plans and specifications and operating and maintenance standards;
- Supervises and participates in the preparation of engineering and economic feasibility studies and long-range programs for the replacement or rehabilitation of mechanical and other systems and equipment;
- Performs other related duties as required.

**MINIMUM REQUIREMENTS:**

A combination of education and experience equivalent to graduation from a college or university of recognized standing with major work in mechanical engineering, and four years of mechanical engineering experience.

Registration as a Mechanical Engineer in the State of California.

A valid motor vehicle operator license.

**DESIRABLE QUALIFICATIONS:**

Several years experience in civil engineering is highly desirable; also a thorough knowledge of the principles and practices of mechanical engineering; a good knowledge of the principles and practices of air conditioning, heating and ventilating systems; a working knowledge of engineering economics; the ability to coordinate the work of

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engineers and technical personnel; ability to write reports; and the ability to establish and maintain effective public relations.

**HISTORY:**

Approval/Adoption Dates: 09/18/72